Bleeding is a problem. It derails recovery and mars the success of your well-executed procedures, diminishing patient satisfaction and ballooning the total cost of care. Detect bleeding early and stay informed of its progress while integrating into your standard workflow. The Early Bird Bleed Monitoring System gets you in and out with positive outcomes intact.

BLEEDING HAPPENS, COMPLICATIONS DON’T HAVE TO.

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18%  
Bleed complication rate associated with large-bore procedures¹

3X  
Increased mortality risk¹

$18K  
Incremental cost¹

STAY IN CONTROL WITH THE EARLY BIRD
PROTECT YOUR OUTCOMES
WITH THE EARLY BIRD® BLEED MONITORING SYSTEM

EARLY BIRD GIVES YOU ACTIONABLE INFORMATION AT THE ONSET OF BLEEDING

The Early Bird Bleed Monitoring System detects bleeds the moment they happen, helping to preserve your outcomes and provide an additional level of assurance for the patients most vulnerable to bleeding events.

Early Bird is ideal for:
- Mechanical Circulatory Support
- TAVR
- Complex PCI
- EVAR/TEVAR
- Cardiogenic Shock
- Patients with prior bleeding incidents
- Patients unable or unwilling to undergo blood transfusions
- Patients who are morbidly obese

Reduce intra-and post-procedure complication risk
Lower total cost of care
Enhance patient experience
EARLY BIRD AT A GLANCE

RELATIONSHIP BETWEEN BIOIMPEDANCE AND BLEEDING
Animal and human experience have demonstrated a consistent correlation between a decrease in bioimpedance and an increase in bleed volume.\textsuperscript{2,3} Using the Bleed Detection Array, Early Bird generates a regional bioimpedance signal to monitor a patient’s bleed status.
In the femoral vein, Early Bird detects bleeding during both large-bore and standard access procedures and can remain in place for sustained monitoring in the hours following closure.

EARLY DETECTION LEADS TO MORE INFORMED CARE
Bioimpedance changes measured by Early Bird allows early detection of bleeding prior to patients becoming symptomatic. Simple indicators tell you when it’s time to pay closer attention to a potential bleed, and when it’s time to act.

DETECTS BLEEDS WITH 100% SENSITIVITY AND AS ACCURATELY AS CT SCAN (GOLD STANDARD) \(^3\)
Sustain the results of your successful intervention through early detection and monitoring of internal bleeding complications. Early Bird enhances bleed management and provides assurance to your patients.

### EARLY BIRD BLEED MONITORING SYSTEM ORDERING INFORMATION

<table>
<thead>
<tr>
<th>ORDER NUMBER</th>
<th>SIZE (Fr)</th>
<th>ORDER UNIT OF MEASURE</th>
<th>ID, inch (mm)</th>
<th>LENGTH (cm)</th>
<th>GUIDEWIRE COMPATIBILITY (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FG001-01</td>
<td>6</td>
<td>5 ea</td>
<td>0.085 (2.16)</td>
<td>20</td>
<td>0.035</td>
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<tr>
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<td>5 ea</td>
<td>0.110 (2.79)</td>
<td>20</td>
<td>0.035</td>
</tr>
</tbody>
</table>

**INDICATIONS FOR USE**

Early Bird is indicated for the introduction of catheters, catheter balloons, and other diagnostic and interventional devices into the femoral artery or femoral vein while maintaining hemostasis during diagnostic and interventional endovascular procedures.

Early Bird provides physicians with an early indication of a potential internal bleeding complication by initial detection and monitoring of extravascular fluid accumulation.

**CONTRAINDICATIONS**

There are no known contraindications for Early Bird.

Before use, physicians should review all information regarding risks, warnings and potential adverse events which can be found in the “Instructions for Use.” www.saranas.com/IFU


Saranas, Inc. is a privately held medical device company focused on developing and commercializing innovative internal bleed detection technologies designed to bring real-time awareness to potential bleeding complications prior to them becoming clinically significant.

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This product and/or its use may be covered by one or more of the following United States Patents: 8,273,023; 8,366,615, 8,961,417; 9,078,627; 10,264,981. Other U.S. patents pending. Other patents issued and/or pending outside of the U.S.

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